

Title (en)
A writing instrument

Title (de)
Schreibgerät

Title (fr)
Instrument à écrire

Publication
EP 0556440 B1 19970122 (EN)

Application
EP 92113038 A 19920730

Priority
• JP 2924592 A 19920217
• JP 18770992 A 19920715

Abstract (en)
[origin: EP0556440A1] An ink reservoir (2) and a slide plug (6) are slidably provided in a pen barrel (1). The ink reservoir (2) is filled with liquid ink. The slide plug (6) divides the interior of the pen barrel (1) into an ink region and an air region. A writing tip (4) is provided in the distal end portion of the pen barrel (1) so as to be movable axially. An elastically deformable diaphragm member (13) is provided in the pen barrel (1). The diaphragm member (13) divides the interior of the pen barrel (1) into a writing tip side region and an ink reservoir side region and is elastically deformed toward the ink reservoir (2) when a writing pressure is applied to the writing tip (4). The diaphragm member (13) is formed with an opening (14) which opens to cause the ink reservoir (2) to communicate with the writing tip (4) when the diaphragm member (13) is elastically deformed. Upon writing, the diaphragm member (13) is elastically deformed to pressurize the ink in the ink reservoir (2). In this case, the slide plug (6) slides to restrict the upper limit of the ink pressure to a predetermined value. Ink under the predetermined pressure is supplied from the ink reservoir (2) to the writing tip (4) through the opening (14). <IMAGE>

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B43K 5/18

IPC 8 full level
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CPC (source: EP US)
B05B 11/0035 (2013.01 - EP US); **B43K 5/1845** (2013.01 - EP US); **B43K 5/189** (2013.01 - EP US)

Cited by
AU712990B2; DE19810217A1; DE19626755A1; US6027274A; US6004058A; US5888007A; GB2310592A; AU700541B2; GB2310592B; WO9614998A1; WO9702148A1; WO9722481A1

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